

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/16817

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : H04L 9/00  
US CL : 713/152, 201; 709/225

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
U.S. : 713/152, 201; 709/225

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
NONE

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
EAST

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 6,321,338 B1 (PORRAS et. al.) 20 November 2001, abstract, column 2, lines 42-53, column 3, lines 32-41, column 3, line 66 to column 4, line 18, column 4, lines 48-60, column 5, lines 4-64, column 6, lines 38-67.	1-17
Y	US 6,275,942 B1 (BERNHARD et. al.) 14 August 2001, column 1, lines 53-67, column 4, lines 21-39, column 7, lines 5-9, 30-37, column 13, lines 20-34.	1-17
Y	US 5,720,035 A (ALLEGRE et. al.) 17 February 1998, column 1, lines 10-column 2, line 7, column 10, lines 4-61.	1-17
Y	US 5,621,889 A (LERMUZEAUX et. al.) 15 April 1997, abstract, column 1, lines 16-22, column 2, lines 23-47, column 3, lines 30-55, column 4, lines 9-56, column 5, lines 27-42, column 6, lines 52-54, column 9, line 63-column 10, line 2.	1-17
Y	US 5,278,901 A (SHIEH et. al.) 11 January 1994, abstract, column 1, lines 14-25, 48-56, column 1, line 59-column 2, line 10, column 2, lines 30-42.	1-17

☐ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance  
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"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
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"&" document member of the same patent family

Date of the actual completion of the international search

02 August 2003 (02.08.2003)

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